



Energy Loss Calculator

Air Conditioning Loss Per Year

CFM that is exhausted outside		CFM
Outside temperature in Fahrenheit degrees To		To
Inside temperature in Fahrenheit degrees Ti		Ti
Enter the \$/kWh - see LINK for location - national average .10 cents		\$/kWh
Number of hours worked per week		Hours
Number of weeks worked		Weeks
Total Loss for Air Conditioning per Year		\$

CALCULATE

Heat Loss Per Year

CFM that is exhausted outside		CFM
Select desired air temp and enter annual heating degree-day normal - dg - from table below		Hours
Number of hours worked per week		Hours
Enter cost of fuel \$/unit - C - from table below		\$/kWh
Enter available Btu per unit - q - from table below		To
Total Loss for Heat per Year		\$

CALCULATE

Available Btu (q) and Cost Per Unit Of Fuel (C)

Fuel Type	Unit of Measure	Available Btu Per Unit (q)	Average Cost Per Unit \$ (C)
Coal	Lb.	6000	0.0522
Oil	Gal.	106500	2.52
Gas Heat Exchanger	Cu.Ft.	800	0.01664
Gas Direct Fired	Cu.Ft.	900	0.01664

Annual Heating Degree-Day Normals (dg)

Air Temp °F	Albany	Boston	Chicago	Cleveland	Detroit	Minneapolis
80	11782	10409	10613	11343	10959	13176
78	11062	9690	9940	10621	10256	12478
76	10356	8994	9283	9915	9581	11797
74	9669	8317	8656	9229	8920	11142
72	9007	7668	8046	8567	8291	10496
70	8364	7046	7468	7928	7678	9870
68	7750	6458	6905	7313	7100	9269
66	7162	5903	6373	6722	6543	8687
64	6607	5370	5875	6165	6020	8131
62	6081	4873	5399	5636	5533	7590
60	5586	4399	4936	5140	5054	7086

Air Temp °F	New York	Philadelphia	Pittsburgh	St. Louis	Washington D.C.
80	9284	9652	10797	8943	8422
78	8596	8954	10076	8310	7764
76	7938	8285	9379	7702	7139
74	7308	7641	8702	7121	6538
72	6706	7028	8050	6560	5974
70	6146	6438	7429	6023	5438
68	5606	5886	6833	5523	4929
66	5101	5360	6272	5053	4455
64	4621	4864	5734	4595	4014
62	4176	4397	5234	4168	3588
60	3747	3952	4769	3761	3182